Kushal Singh

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EXPERIENCE

Full Stack Engineer | **June 2024 – Present**
IronRod Health | *Bengaluru, Karnataka*

- Reduced data extraction time by **60%** and improved patient-data accuracy by building a production-grade HL7 parser in Spring Boot using Java Streams to convert HL7 files into JSON.
- Increased throughput and scalability for healthcare workloads by architecting a configuration-driven data ingestion engine for CSV/JSON inputs (**100k+** records) using Reactor Core streams and PostgreSQL.
- Cut manual configuration effort by **70–80%** by designing dynamic JSON-based configurations and a settings UI to customize data mappings and tables without code changes.
- Reduced repetitive manual operations by **70–80%** while preserving edge-case review by implementing a rules engine automating **200+** patient, device, and inventory workflows as Azure Functions.
- Improved deployment reliability and release speed by leading DevOps efforts with Terraform, Firebase, Azure Functions, Blob Storage, queues, Docker, and YAML-based CI/CD pipelines.

Full Stack Engineer | **May 2023 – May 2024**
Jellyfish Technologies | *Noida, Uttar Pradesh*

- Enhanced website's performance by migrating Thymeleaf to React (cut load time by **2000 ms**) and optimizing Electron build size (**75 MB → 60 MB**), using React, Spring, Spring Boot, and Docker.
- Engineered automation tools for **AWS S3** data structuring leveraging cloud-native patterns to boost fetch performance. Delivered robust, scalable full-stack and desktop solutions across diverse modules.
- Built a **Code Editor** for an HR platform, integrating compilers for multiple languages for coding assessments.

Software Engineer Intern | **Nov 2022 – April 2023**
Jellyfish Technologies | *Noida, Uttar Pradesh*

- Internship experience encompassed technologies such as MongoDB, MySQL, Spring, Spring Boot and React.

Backend Development Intern | **June 2021 – Sept 2021**
QuadB Technologies | *Remote*

- Optimized code, built **100+ APIs** (including analytical), managed backend tasks and media processing

PROJECTS

Howdy - Real-Time Chat Application | Github
Spring | Spring Boot | MongoDB | ReactJS | Socket.io | Firebase | Cloudinary | ChakraUI

- Developed real-time chat app with audio/file messages, google auth, notifications and typing features.
- Enhanced user experience with Reply Functionality for targeted responses in One-to-One and Group chats. Added Emoji Keyboard and ensured full Cross-Platform Compatibility.

AI LinkedIn Replier Chrome Extension
ReactJS | OpenAI | Plasmo | TypeScript

- Developed a Chrome extension with Plasmo that integrates and improves LinkedIn messaging workflows.
- Utilized advanced **AI** models to deliver context-aware reply generation, boosting user response quality.

3D Portfolio Website | Github
React.js | Three.js | Tailwind CSS

- Developed an 3D portfolio website with, 3D Models, and dynamic particles for the hero section.
- Employed Tailwind CSS and Framer Motion to enhance user interaction and elevate the visual experience.

TECHNICAL SKILLS

Programming Languages: **Java, C, C++, JavaScript**
Frameworks & Libraries: **Spring**, **Spring Boot**, **Thymeleaf**, **Microservices**, **Socket IO**, **HTML**, **CSS**, **Bootstrap**, **SCSS**, **Tailwind**, **Material UI**, **ReactJS**, **ElectronJS**
Databases: **PostgreSQL**, **MySQL**, **MongoDB**, **Firebase**, **Sequelize**
Developer Tools: **Docker**, **AWS**, **Azure**, **Kafka**, **Kubernates**

ACHIEVEMENTS

- Won first place in a college hackathon, demonstrating strong problem-solving and teamwork skills.

EDUCATION

B.Tech. (CSE) - 8 GPA | **2019 – 2023**
Greater Noida Institute of Technology | *Noida, Uttar Pradesh*